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**(DEEMED TO BE UNIVERSITY)**

Declared as Deemed to be University u/s 3 of UGC Act, 1956

The Constituent College

SHRI B. M. PATIL MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, VIJAYAPURA

**Department of Pathology**

**VALUE ADDED COURSE ; Cadaver Based Bone marrow study**

**Target group:** First year Post graduate Pathology, Medicine & pediatrics students.

**Objective of the Course:**

To train the postgraduates in various techniques and simulate the case scenarios in the Bone marrow study procedure with cadaver-based teaching.

**Course Content:**

Course was primarily designed around the requirements using the inputs collected from the participants.

A peer reviewed module approach was instituted for the training of the techniques.

Orientation to the various aspects of the prerequisites for bone marrow, procedural requirements and post procedural protocols were incorporated as follows.

**Bone marrow Study Course Outline**

**Prerequisites before the procedure**

1. Consent
2. Procedure notes communication, Investigations to be checked before assigning the slot for the procedure.
3. Items needed for the procedure.
4. Test dose, communication, procedures.
5. Examination of site of the procedure or choice of the procedure site.

**Procedure**

1. Sites of Biopsy.
2. Indications for Aspiration/biopsy, with regards to consideration of the site.
3. Contraindications of Aspiration Biopsy.
4. Needles used for bone marrow study – Types, names and recommended needles.
5. Surface marking for the various sites.
6. Positioning of the patient.
7. Items needed for the procedure.
8. Local anesthesia used – Drugs, dosage, Onset of action & duration of action and maximum allowed dose. Contraindications, alternatives.
9. Skin infiltration technique for LA & types of needles used.
10. Special precautions in pediatrics, autopsy evaluation in bone marrow study.
11. Types of samples that can be collected, analyzed and the procedure to prepare them.
12. Solutions needed immediately after the procedure to place the sample.

Smt. Bangaramma Sajjan Campus, B. M. Patil Road (Sholapur Road), Vijayapura - 586103, Karnataka, India.

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Feedback collection: Online feedback collection and assessment of the post procedural sessions – 1Hr

Microscope based teaching: 4Hrs (OPTIONAL SESSION, mandatory for Pathology Postgraduates)

Orientation to the topography and identification of cells

Discussion of most common conditions in bone marrow

Q&A Session for the postgraduates

Resources provided to the students:

- Enlisting of the modules and videos of the procedure.
- Detailed listing of the various topics.
- PowerPoint presentations covering the topics.

Assignment distribution and submission of assignments

- Assignments ranging from multiple choice-based questions to open ended style questions will be distributed over teams.
- Listening to the feedback of the early bird registrations, all the assignments will be posted in the group from Day 1 with submission due dates varying for each topic and deadline for late submission till 9:00AM on the day of hands on workshop.

**Class 1- 1Hr duration:** An orientation program consisting of a PowerPoint presentation introducing the teams application was done. Students were asked to install the following digital tools.

Mobile applications from Appstore(iOS) and Play Stores (Android):

1. Microsoft Teams

**Class 2- 1Hr duration: Hands-on**

A hands-on orientation program was done in the classroom with few simple tasks to understand the workflow. Once the students are oriented to the programs, a task was given for assessment. The feedback was collected from students regarding the need for further customization and required help regarding the usage and clearing of doubts with respect to the digital methods were explained.

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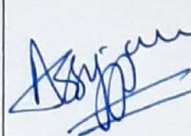


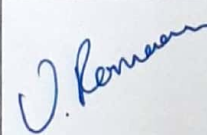
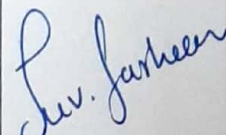

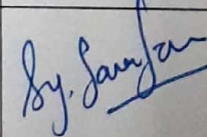
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
Shri B M Patil Medical College Hospital & Research Centre, Vijayapura

Department of Pathology

Value Added Course 2, Cadaver Based Bone marrow Study Training & Hands on Workshop

Feb, 1-29 2020. VAC- Feb, 1-24 2020. Workshop- 3pm to 5pm.

SL NO.	NAME OF STUDENT	COLLEGE	DEPARTMENT	SIGNATURE
1	Dr Aparna Sajjan	Shri B M Patil Medical College Hospital & Research Centre, Vijayapura	Department of Pathology	
2	Dr Saswati Subhadarshini	Shri B M Patil Medical College Hospital & Research Centre, Vijayapura	Department of Pathology	
3	Dr Veena Varier	Shri B M Patil Medical College Hospital & Research Centre, Vijayapura	Department of Pathology	
4	Dr Umme Rومان	Shri B M Patil Medical College Hospital & Research Centre, Vijayapura	Department of Pathology	
5	Dr Juveriya Farheen	Shri B M Patil Medical College Hospital & Research Centre, Vijayapura	Department of Pathology	
6	Dr Shruti Sawant	Al Ameen medical college and hospital, Vijayapura	Department of Pathology	
7	Dr Syeda sara Farheen	Al Ameen medical college and hospital, Vijayapura	Department of Pathology	

  
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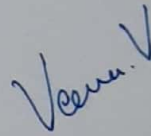
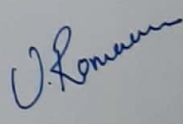
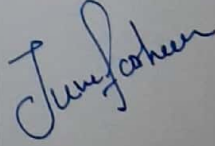
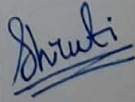
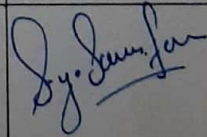
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
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Date- Feb 24-29, 2020

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